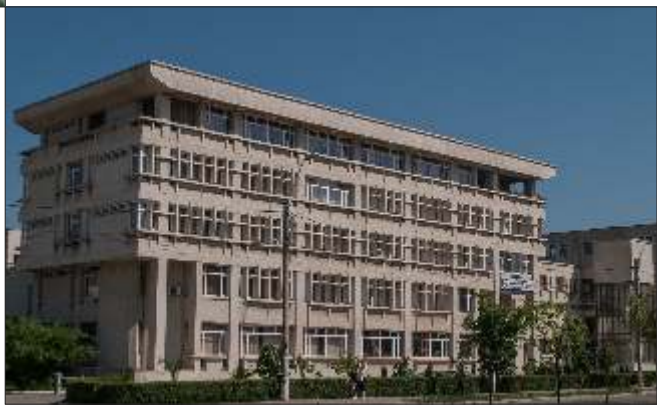
Faculty of Machine Manufacturing and Industrial Management

"Gheorghe Asachi"
Technical University of Iasi



Mechanical engineering

Applied fluid mechanics

Why?

The Master degree program "Applied fluid mechanics" is training highly qualified specialists able to develop advanced technical applications of fluid mechanics in three priority areas of research - development - innovation: energy, environment, intelligent systems.

Applied fluid mechanics

Am I going to **like it**?

- ✓ You want to obtain additional high level professional qualifications in the priority areas: energy, intelligent systems, environment
- ✓ You are a graduate of "Fluid machinery and fluid systems" studies and you wish to obtain an academic postgraduate degree
- ✓ You are a graduate of another University program and you wish to complete your qualifications with new specialization
- ✓ You wish to obtain a doctoral degree
- ✓ You wish to follow an academic career

Strengths

Graduates of APPLIED FLUID MECHANICS Master's degree program, are able to develop on the scientific basis, new products, processes and methods in the following areas of competence:

- Wind turbines. Advanced hydrodynamics of turbomachinery. Advanced aerodynamics and hydrodynamics
- Systems and equipments for water and air depollution. Non-Newtonian fluid dynamics
- Modelling of automatic hydraulic systems. Pneumatic systems and equipments. Control systems and equipments in hydraulic systems
- Computer aided engineering. Finite element analysis. Modeling and simulation of hydraulic, mechanic, electric and thermal systems dynamics .

Job **opportunities**

Researcher in fluid machinery.
Research engineer in fluid machinery.
Research assistant in fluid machinery.
Researcher in process equipment.
Research engineer in process equipment.
Research assistant in process equipment.
Researcher in mechanical machinery and equipment.
Research engineer in mechanical machinery and equipment. Research assistant in mechanical machinery and equipment.
Head of research and development department.
Assistant Professor.

Admission **Info**

Admission to the Master degree program "Engineering and management in mechanical manufacturing" is carried out on the basis of marks obtained at the diploma exam and interview.
The admission final mark is given by the relationship:
$M=0.7 \cdot Mdipl+0.3 \cdot Mi$
where:

- Mdipl is the mark obtained the the diploma exam;
- Mi is the mark obtained the the interview.

The interview will consist in the presentation of an essay, minutes maximum, on the candidate's motivation and expectations for the EMMM Master degree program.